

15(A') = T; (A) O - Ann - W - Tun (A) - Tun (A') - O CEN(A), d(c) = w A' = A (x | a(x) = w] Example R - R/(r) R(x, 0(x)=r) Symmetric Algebras For AGSCR, dofun Syny: Mody = SCRA right adjoin For (Sym (M)) = Sym (Mn) (Sorgafied Fuctor) gives use to vyw devure sure I syan Example . LSymn (M[17) = (LM, (M))[n] · L Synia (MP27) = (L F1 (M))[21] If A o a Q-algebra the Sym" = [" Example Went os Syan 7/ [n-1]? * 07 - S"67' Symz Z(*) - Z[S"-1] > Z[n-1] >> Sym Z [A-1] ~ Z[(S";*)]

	We can also discerse attaching cells by
	ABZ
mention of the visit decisions	A[X, 2(X) =0] = Sym Ala)
11	
The second secon	
meter team dans growing	For AGSCR, Mc Moss
Form	"tived extension" A & M by
聞 Mathematic Hall Staff Scale Law Joseph	(AOM), = AnoMn
er en	(a,m)(a',m') = (aa', an'+a'n)
7	For k a field, koklid "høghen dud members"
	$k \otimes k \log = k \log / y (\epsilon)$
	a homotopy pulbaca
	K[E]/Enai, -> K[E]/(En)
· · · · · · · · · · · · · · · · · · ·	$\left(\begin{array}{c} \star \\ \star $
	To ava (-)
	(desormations on) (desormations over k [8]/2n)/
· · · · · · · · · · · · · · · · · · ·	Obserger
	Obstruction (desomations over) Classes (KOK[1])
į	

	How do un produce (x)?
	· Chark = 0 ~ we can produce it using CDGA:
	· In genual, replace K[E]/En by K[E][x][8(x)=En]
	to st drugvan
	K[s7[x/a(x)=e"] & x
-	
	K - KOK[I] O IGK[I]
-	
	Proproties Flatness, Etalemss, Smoothness
	1 VOPOVA VA INTERNATIONALISMAN AND AND AND AND AND AND AND AND AND A
	So the second of
	to latiness
	Prop./Def If AESCR, ME Moly is flat if the following equiv. Conditions hold:
	the following equiv. Conditions hold:
7	(1) To (M) & flot To (A) - no delle
0	
	Tin(R) & Tto(M) - Tin(M) for Mn
	(2) M& _ Commutas with finite homotopy Idnits
	(3) M is a filtered colonit of finite Stee A-modules
	(2') M&_ Commettes win 12 (i.e S2M ->0)
	(D") For N disease A-module,
	M@N is doctor

CHAL/SMOO		
Defini	ion A -> B ~ SCR 13 e'tale (but Smooth)	#
	if it is flat and To-(A) - To-(B)	Spinor
ender	is o'tale (resp. Snowth)	
and the second control of the second control		
ik a u tikan giriyadi qari i nastan.	Filiterus Conditions	
n no no no na na national de la compansión	2 for the Communication of the	
	A-Bascr. We say Bis a	
()	· filitely Presented A-ely if it can be obtained by attaching friends many cells	-
n		
	· locally fried promotes A-aly if it is a to trait	
e wight with them at the second	of a fin. presone A-elg.	
	we want to the miles of the same of the sa	
no en	· Almost fin. protes if $\forall n$ $\exists Bn$ a fil. present A-cly \in as $\exists f_n : B_n - B$ such that	Î
- A ($T: (B) \xrightarrow{\Sigma} T: (R) \text{ so } i \in O$	
	A SALA SALA SALA SALA SALA SALA SALA SA	
	Analogous conditions for Mobiles	
and the second s		
	160	
	(3) almost perfect	
* · # ·		
Example	The state of the s	
	· M perfect => PdR Mcoo	*
	10Cdly Jose proom 13 Compact	
	I SECTION OF THE PROPERTY OF T	
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